

Notice of Allowability

Application No.

10/822,842

Examiner

Vincent T. Tran

Applicant(s)

KOO, JA-GOUN

Art Unit

2115

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

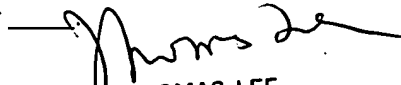
1. ☒ This communication is responsive to 4/13/06.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 4/13/06, 3/14/06
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


THOMAS LEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

DETAILED ACTION

1. This Office Action is responsive to the communication filed on 4/13/2004
2. Claims 1-18 are pending for examination.

Priority

3. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d).

Information Disclosure Statement

4. The information disclosure statement (IDS) submitted on 4/13/2004 and 3/14/2005 were considered by the examiner.

Allowable Subject Matter

5. Claims 1-18 are allowed.
6. The following is an examiner's statement of reasons for allowance:

The present invention is directed to a portable computer, in particular to a portable computer using a fuel cell which can be refueled anytime, thereby efficiently supplying power to the portable computer. Specifically, application has claimed uniquely distinct features in the instant invention which not found in the prior art either singularly or in combination.

a signal sensor sensing an external fuel supplying signal from the primary fuel valve; and a controller controlling the portable computer to operate in the maximum performance mode based on the sensed external fuel supplying signal.

The prior art, Ozeki US 20040219414 teaches another portable computer comprising a first fuel cell for generating first electric power, a second fuel cell for generating second electric power less than the first electric power, and a switching circuit coupled to the first fuel cell and the second fuel cell for selecting one of the first and second fuel cells wherein the switching circuit responsive to signals from the electronic device indicative of power demand for controlling the switching circuit.

Hayashi et al. U.S. Patent No. 6,910,138 teach another method relates to a computer system comprising a means for determining whether a power supply is a fuel cell assembly or an AC adapter wherein, when it is determined that the power supply is a fuel cell assembly, switching the operation mode of the computer to a fuel cell assembly mode in which the computer system is operating in a low power consumption mode.

Becerra et al. US 20050014041 teach another system relates to fuel cells and more particularly, to a management system for a fuel cell in a wide array of consumer electronics. Specifically, Becerra et al. teach a method for effectively and efficiently managing refueling and fuel delivery in a fuel cell system wherein the system comprising means to sense, calculate, or record information, such as the volume of remaining fuel canister or cartridge; and means to determine when the fuel canister or cartridge needs to be refilled and can control the refilling operations.

The above prior art, either singularly or in combination, fail to anticipate or render the present invention obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

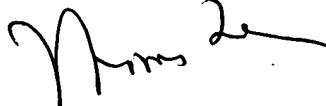
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vincent T. Tran whose telephone number is (571) 272-7210. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas c. Lee can be reached on (571) 272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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